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Institute of Mine Surveyors of South Africa Report

The Institute of Mine Surveyors of South Africa (IMSSA), as the body representing mine surveyors and allied disciplines in South Africa, has maintained a positive presence in the mining industry. Focus on delivery of its objectives throughout the past year has been maintained by its Council, standing committees and regional branches. Representation on various industry forums has been maintained, with positive outcomes. Much of the efforts of IMSSA have been focussed on education and advancing the practice of mine surveying in the country. Additionally, there is a growing interest in membership of IMSSA from other African countries.

The most significant achievement during the period under review is the completion of a new text book which is intended as mathematical foundation for engineering students. This book is to be launched at the Annual General Meeting of IMSSA on 20 October 2011.

Following the successful hosting of the XIV International Congress of the ISM in 2010, The Executive and Council of IMSSA have been occupied with ensuring conclusion of the administrative contract with conference organisers. This has been a task requiring considerable time and effort.

Additionally, IMSSA has engaged with the Engineering Council of South Africa (ECSA) and the South African Council for Professional and Technical Surveyors on the definition of "identified work" for

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registered engineers, such as mine planning, which would negatively impact on practicing mine surveyors. Developments on this important matter are being critically monitored. The risk being addressed is that should ECSA place mine planning on a schedule of "identified work", this work would then be reserved for registered engineers and would prevent mine surveyors from undertaking mine planning work.

Education and Knowledge Transfer

IMSSA's work on mine surveying education have been focused on:

- Publication of the book *Mathematics for Engineers – a comprehensive mathematical foundation for engineering students*, which is to act as a bridge between school and first-year university mathematics – an area of weakness in current school mathematics syllabi.
- Supporting the Education Advisory Committee of the SA Council for Professional and Technical Surveyors, in the creation of new accredited qualification models, to replace current qualifications. The scope of this exercise covers Higher and Advanced certificates, Bachelor degrees and Bachelor (Hons) degrees. These qualifications will be phased in over the next few years at universities.
- Masters and PhD programmes are being further developed at the University of the Witwatersrand, under the guidance of Professor Fred Cawood. Coupled with the certificates and bachelors degrees, will mean that a full suite of mine surveying qualifications will be available to students.
- As reported in 2010, IMSSA obtained copyright to two books: *Problems and Solutions for Mine Surveyors* and *South African Mine Valuation* from the Chamber of Mines. Work is progressing on a comprehensive update of *South African Mine Valuation*, with new chapters and authors of these chapters identified. This will be a significant body of work.
- The new format IMSSA Journal has been very positively received and will progressively include papers from the XIV International Congress of the ISM.

South African Mining Commodity Summary

Please see attached summary (which excludes most industrial minerals) which details quantities and revenue of principal minerals mined during the period January to December 2010.



Michael Livingstone-Blevins Pr. M.S. (SA), FRICS
 South Africa Representative to the ISM
 ISM Vice President

ME-P-014

DEPARTMENT OF MINERAL RESOURCES

DATE : 2011/05/31

Commodity Summary

REVISED

Period from : 2010:01 to 2010:12

* means classified

n means data not collected

Commodity	Unit	Production Mass	Local Sales		Export Sales		Total Sales	
			Mass	Value (R)	Mass	Value (R)	Mass	Value (R)
Gold	kg	188 701	7 219	2 055 697 665	176 858	51 037 449 221	288 579	53 093 146 886
Diamonds	ct	8 868 389	*	*	*	*	*	*
Platinum Group Metals	kg	287 304	*	7 892 569 539	244 419	65 894 340 635	269 596	73 786 910 174
Chromite	t	10 871 095	7 266 679	4 159 308 269	1 929 463	2 459 472 890	1 275	6 618 781 159
Cobalt	kg	840 285	57 988	16 109 703	493 098	135 424 153	275	151 533 856
Copper	t	83 640	56 682	3 160 028 726	24 822	1 209 297 419	48 718	4 369 326 145
Iron ore	t	58 709 330	10 560 910	3 270 326 455	310	47 492 581	845	43 418 605 520
Manganese ore	t	7 171 745	*	1 320 564 448	5 986 345	9 340 025 727	1 560	10 660 590 175
Uranium oxide	kg	682 289	*	*	*	*	*	*
Coal	t	254 521 945	188 110 482	36 455 545 191	66 395 802	36 746 983 377	553	73 202 528 568
Limestone and lime	t	22 501 577	19 219 491	2 263 990 902	9 954	13 279 062	1 334	2 277 269 964
Grand Total			ZAR	60 594 140 898	ZAR	206 984 551 549	ZAR	267 578 692 447
Nominal US Dollar (at ZAR 7.00 = USD 1.00)			USD	8 656 305 843	USD	29 569 221 650	USD	38 225 527 492

Whereas the greatest care has been taken in the compilation of this data set the Department of Mineral Resources does not hold itself responsible for any errors or omissions